

Air Monitoring Summary Tables

The table below summarizes monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: Weaver Fertilizer Plant Fire

**From: 2/2/2022
6:00 PM**

**To: 2/3/2022
6:00 AM**



Location 1: Wake Forest University Police Station							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 119	NO ₂	No	13,022	13,022	0.030 to 0.100 ppm	0.063 ppm	0.500 ppm
SPM Flex 204	NH ₃	No	13,031	3,261	0 to 0.670 ppm	0.024 ppm	30 ppm
DustTrak 167	PM-2.5	Yes	17,337	17,337	0.025 to 0.852 mg/m3	0.138 mg/m3	0.051 mg/m3

Location 2: North Hills Elementary							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 036	NO ₂	No	13,078	13,078	0.040 to 0.060 ppm	0.053 ppm	0.500 ppm
SPM Flex 161	NH ₃	No	14,538	1,753	0 to 0.380 ppm	0.005 ppm	30 ppm
DustTrak 171	PM-2.5	No	751	751	0.023 to 0.046 mg/m3	0.034 mg/m3	0.051 mg/m3

Location 3: Urgent Care (7811 North Point Blvd)							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 125	NO ₂	No	10,619	10,619	0.050 to 0.090 ppm	0.065 ppm	0.500 ppm
SPM Flex 159	NH ₃	No	11,007	51	0 to 0.020 ppm	0.00004 ppm	30 ppm

Location 4: Cook's Flea Market							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 158	NH ₃	No	8,312	986	0 to 0.420 ppm	0.006 ppm	30 ppm
DustTrak 172	PM-2.5	Yes	749	749	0.026 to 0.062 mg/m3	0.038 mg/m3	0.051 mg/m3

Location 5: Weaver Fertilizer Plant Perimeter							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRae Pro	NO ₂	Yes	2,000	2,000	0.100 to 0.700 ppm	0.400 ppm	0.500 ppm
AreaRae Pro	NO ₂	Yes	2,000	1,986	0 to 5.20 ppm	0.753 ppm	0.500 ppm

Roving Monitor							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 150	NO ₂	No	8	8	0.040 to 0.060 ppm	N/A	0.500 ppm
DustTrak	PM-2.5	Yes	8	8	0.040 to 0.500 mg/m3	N/A	0.051 mg/m3

Notes:

mg/m3	milligrams per cubic meter
NH ₃	Ammonia
NO ₂	Nitrogen dioxide
N/A	Not Applicable
ppm	Parts per million
PM	Particulate matter
SPM	Single Point Monitor

Other compounds were monitored using the AreaRae Pro at the Weaver Fertilizer Plant perimeter location, but not included in this summary report due to minimal detections that were below the established action levels.